

PARFENOV, L. M. (Veterinary Surgeon, Taganroy)

"An incidence encountered in practice" (Description of penicillin treatment of tetanus in a horse)

Veterinariya, Vol. 38, no. 10, October 1961, pp. 81-89

PAVLOV, V. M., et al.

Geological characteristics of some metamorphic and igneous formations
in the Eastern Sayan Mountains. Geol. i geofiz. no. 7:105-108 '65.
(MIRA 18:9)

• Institut geologii i geofiziki Sibirskogo otdeleniya AN
SSSR, Novosibirsk.

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6

ANAN'YEV, A.R.; KORDE, K.B.; MIKHAYLOVA, Yu.V.; PARFENOV, M.D.; S. MOV, S.V.

Plantae. Trudy SNIIGGIMS no.21:220-247 '62. (MIRA 16:12)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6"

PARFENOV, M.T.; NIGAY, G.A.

Case of penetrating wound of the abdominal cavity caused by a wooden
peg of hay spreader. Ortop., travm. protez. 19 no.1:64-65 Ja-P '58.
(MIRA 11:4)

1. Iz Iliyskoy poselkovoy bol'nitsey (glavnyy vrach - M.T.Parfenov)
Alma-Atinskoy oblasti.
(ABDOMEN, wds. & inj.
penetrating, by wooden peg of hay spreader(Rus))

PANTEMOV, N.

Procedure for revising standards in metallurgical plants.
Sots.trud no.6:98-100 Je '57. (MIRA 10:7)

1. Nachal'nik ot dela truda i zarabotnoy platy staleprokatnogo
i provolochno-kanatnogo zavoda.
(Metallurgical plants--Production standards)

1. 0115/66 EMT(1)
ACC NR. AP6025078

SOURCE CODE: UR/0115/66/000/003/0066/0068

AUTHOR: Yukolov, V. I.; Yerdakov, V. B.; Parfenov, N. A.; Shtemberg, S. V.

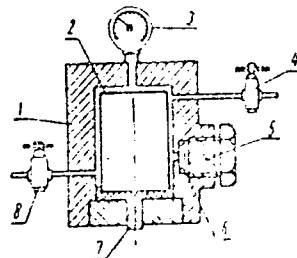
ORG: none

TITLE: Ionization chamber used for measuring high gas pressure

SOURCE: Izmeritel'naya tekhnika, no. 6, 1966, 66-68

TOPIC TAGS: ionization chamber, high pressure, high pressure research, pressure measurement, GAS PRESSURE

ABSTRACT: The I-V characteristic of a plane-parallel ionization chamber (ICh) is described by a well-known J. Boag et al. formula (Brit. J. Appl. Phys., 1952, 3, 222). According to that formula, with pressures over 10^6 n/m² and neglecting the effects of columnar recombination, for current undersaturation conditions ($f < 0.05$, $n > 50$), this relation is approximately true: $f = 1/n = 1/l$; $i = i_0 f = \text{const}$. If the columnar recombination is taken into account, then: $r = \sqrt{p}$, $f = 1/n = p - \frac{1}{l}$. An experimental device (see figure) consisted of a steel body 1 that housed cylindrical ICh 2 having a volume of 6.2 cm³. The ICh two brass electrodes were separated by teflon insulator 7.



UDC: 621.387.422:531.787

Card 1/2

L 41095-56

ACC NR: AP6025078

Valves 4 and 8 served for building up and reducing pressure of tritium-labeled commercial hydrogen in the ICh. The experimental results show that: (1) The current undersaturation conditions in an ICh can be used for measuring high pressures; (2) Both radioactive-isotope gases and labeled stable gases can be measured; (3) Conventional radioactive ionization manometers operated in the undersaturation range can be used for measuring high pressures of nonradioactive gases; (4) Some gases (very pure Ar or He) cannot be measured by this method. Orig. art. has: 3 figures and 6 formulas.

[93]

SUB CODE: 13, 09 / SUBM DATE: none / ORIG REF: 008 / OTH RLF: 005 / ATD PRESS:

5057

Card 2/2 hs

PARFENOV, N.I. ; YAPASKURT, V.V.

Technological scheme of refining in conjunction with a beet sugar factory.
Sakharinaya Prom. 27, No.1, 26-30 '53. (MLRA 6:1)
(CA 48 no.1:393 '54)

1. Krasnopresnensk Group Lab. (for Parfenov)

PARFENOV, N. I.

C.A. V-48
Jan 10, 1954
Sugar, Starch
and Gums

Technological scheme of refining in conjunction with a
beet sugar factory. N. I. Parfenov (Krasnopresnensk
Group Lab.) and V. V. Yapsikurt. *Sakharoza Prom.* 27,
No. 1, 20-30(1953).—Three most practical schemes for re-
fining beet sugar during and out of crop are described. The
flow sheets are shown. V. E. Baikow

PARFEROV, N I

N/5
726.11
.P2

Bor'ba s poteryami sakha v sakharorafinadnom
proizvodstve (Preventing waste of sugar in sugar refining)
Moskva, Pishchepromizdat, 1953

27 p.
Bibliographican footnotes.

PARFENOV, N. I.

Bor'ba s poteriari v saudi po-refinadzher uchebnoe (The Fight Against Losses in Sugar Refining Production), Sislegprik'stroy.

The brochure presents in detail the causes which give rise to sugar loss in individual steps of sugar refining production, and methods of fighting against those losses, and includes exemplary norms for basic products in refining production.

The brochure is intended for engineers, technicians and chemists of the sugar, and other refining industry.

SO: Sovetskkiye Izdati (Soviet - soviet), No. 107, 1958, Moscow, (U-6472)

PARFENOV, N. I.

PARFENOV, N.I.; YERMACHENKOVA, N.A., redaktor; KISINA, Ye.I., tekhnicheskii redaktor.

[Preventing waste of sugar in sugar refining] Bor'ba s poteriami sakhaia v sakharo-rafinadnom proizvodstve. Moskva, Fishchepromizdat, 1953. 27 p.
(Sugar industry)

PARFENOV, N.I.

Localization of a needle with a calculus on its tip in the kidney.
Urologiia no.5:61-62 '61. (MIRA 14:11)

1. Iz urologicheskogo otdeleniya 2-y Gorodskoy bol'nitsy Kovrova
Vladimirskoy oblasti.
(KIDNEYS--FOREIGN BODIES)

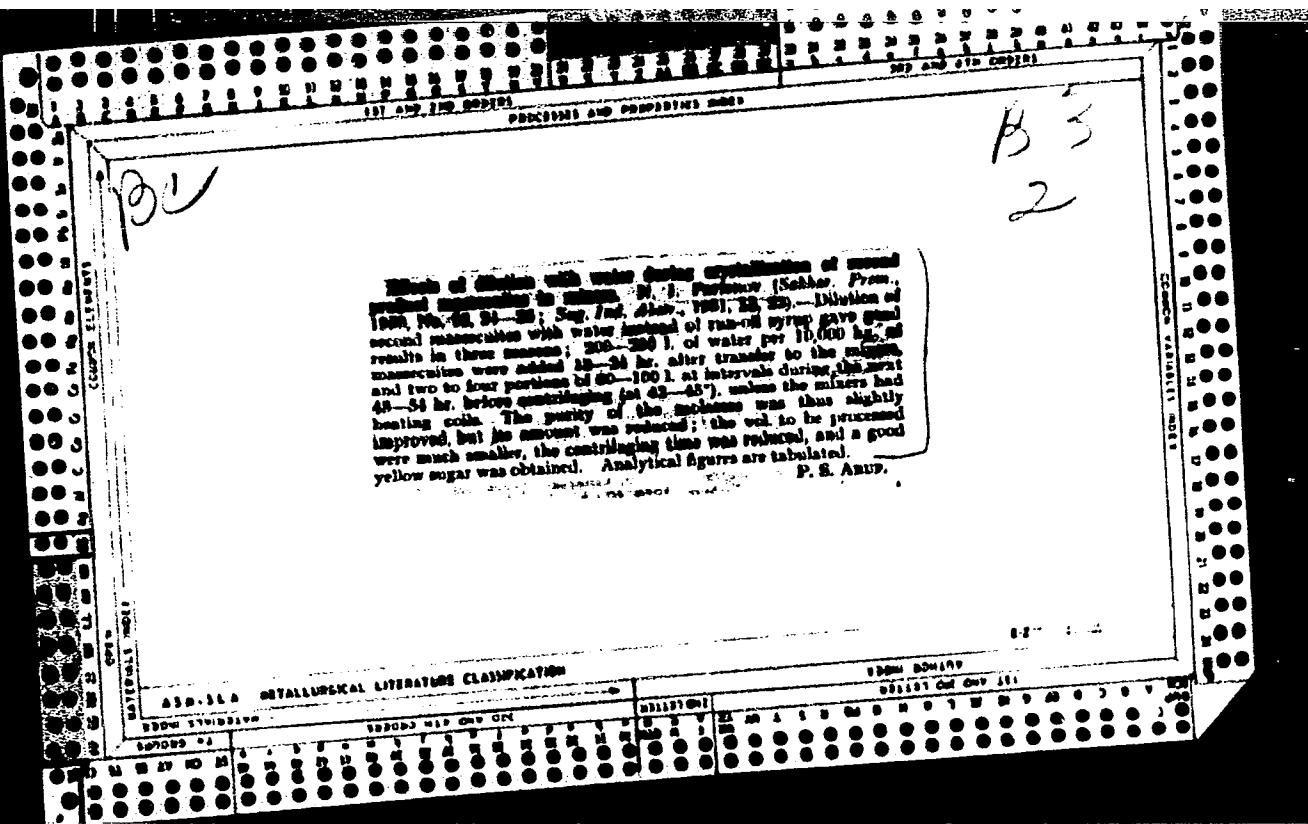
1. PARFENOV, N. I.; YAPASKURT, V. V.
2. USSR (600)
4. Sugar Industry
7. Technological plan for the refining section in a beet sugar factory, Sakh. prom., 27, No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

28

c4

Water dilution of low remelt molasses in crystallizers
of a beet-sugar refinery. N. I. Parfenov. Sakharsnoe
Prom. 24, No. 12, 24-6(1950).—About 300-350 l. of water
at a temp. 6-10° above that of the low remelt should be
added to the crystallizer, per each 20,000 lb. of molasses
after 18-24 hrs. Additional 60-100 l. must be added during the
72 hrs. of curing time. The temp. of the molasses before
purging must be 42-45°. This treatment will possibly in-
crease the purity of the molasses, but will decrease the amt.
of molasses produced. It will shorten the cycle of purging
and improve the quality of the remelt sugar. V. B. H.

1957



PARFENOV, N.K. (Eng), IZHEVSKIY, M.M. (Prof), and KORSHUNOV, S.I. (Eng)

"Reference Book of Standard Letter Symbols," All-Union Committee of Standards, Council of Ministers, USSR, Standartgiz, 1946

Abstract W-13147, 30 Aug 50

ACCESSION NR: AT4015960

S/2659/63/010/000/0246/0251

AUTHOR: Parfenov, N. K.; Chuyan, A. N.

TITLE: A study of oxidation kinetics in Mo-Al alloys

SOURCE: AN SSSR. Institut metallurgii. Issledovaniya po zharoprotchnym splavam, v. 10, 1965, 246-251

TOPIC TAGS: molybdenum alloy, molybdenum aluminum alloy, aluminum containing alloy, refractory alloy, refractory alloy oxidation, protective oxide

ABSTRACT: The study involved binary Mo-Al alloys containing 21-95% Mo and exposed to oxidation in air at temperatures of 700-1200°C for periods up to 10 hours. The rate of oxidation was calculated for these conditions. Specimens with various Al contents were subjected to chemical analysis after smelting and were then tempered in a vacuum for 25 hours at the indicated temperatures. Results are shown, in part, graphically (see Figs. 1 and 2 in the Enclosure). The optimal temperature for the formation of protective oxides in the process of oxidation of Mo-Al alloys was 1100°C. Complex MoAl₁₀ oxides were found to form during the process of oxidation and their crystal lattices were characterized. Alloys containing 36% Al or less did not show loss of Mo in the form of MoO₃. A complex oxide forms at 1100°C in alloys containing more than 36% Al, preventing loss of Mo and protecting

Card 1/1

ACCESSION NR: AT4013960

the alloy against further oxidation. Orig. art. has: 3 tables, 2 graphs.

ASSOCIATION: Institut metallurgii AN SSSR (Institute of Metallurgy)

SUBMITTED: 00

DATE ACQ: 27Feb64

ENCL: 02

SUB CODE: ML

NO REF Sov: 003

OTHER: 004

Card 2/AJ-

PARFENOV, N.K.; CHUYAN, A.M.

Investigating the kinetics of the oxidation of molybdenum-aluminum
alloys. Issl. po zharoproch. splav. 10:246-251 '63. (MIRA 17:2)

PARFENOV, N. K. (Engineer), IZHEVSKIY, M. M. (Professor), KORSHUNOV, S. I. (Engineer)

HANDBOOK OF STANDARD LETTER SYMBOLS, Standartgiz 1946

All Union Committee of Standards of the Council of Ministers USSR

Translation available in FDD Report U-1736, 7 March 1952

L 13080-65 EMP(s)/EPA(s)-2/EWT(m)/EPF(n)-2/EPA(w)-2/EWP(t)/EMP(b) Pub-10/
Pt-10/Tu-4 ASIM(m)-3 JD/JG/MZ/WB

ACCESSION NR: AT4046835

S/0000/64/000/000/0155/0158

AUTHOR: Parfenov, N. K.; Chuvan, A. M.

TITLE: Study of the oxidation kinetics of Mo-Al-Si alloys

SOURCE: AN SSSR. Nauchnyj sovet po problemam zharoprochnykh splavov.
Issledovaniya stalej i splavov (Studies on steels and alloys). Moscow,
Izd-vo Nauka, 1964, 155-158

TOPIC TAGS: molybdenum alloy, aluminum containing alloy, silicon containing alloy, oxidation, oxide layer, composition

ABSTRACT: Two ternary Mo-Al-Si alloys, one containing (wt%) 85.92 Mo, 6.90 Al, 7.18 Si, and the other 62.79 Mo, 27.63 Al, and 9.58 Si, were prepared by arc melting 99.94% pure Mo, 99.999% Al, and crystalline Si in an argon atmosphere; the interaction between Mo, Al, and Si with heating in air at 800–1200°C was studied. At all oxidation temperatures, the first alloy had no weight gain, while the weight loss (caused by vaporization of MoO₃) increased as the oxidation temperature increased. A thick porous scale was formed on the specimen consisting of sillimanite (Al₂O₃·SiO₂), SiO₂ in the form of α -cristobalite, and α -tridymite, a

Car 1/3

L13981-65

ACCESSION NR: AT4046835

complex ($\text{Mo}, \text{Al}_2\text{O}_3$) oxide and mullite ($3\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2$). The oxidation kinetics of the recorded alloy follows a logarithmic rule at 900 and 1000°C and an exponential rule at 1100 and 1200°C. With a 5-hr exposure, the weight gain of this alloy was 0.059, 0.202, 0.097, and 0.176 mg/cm² hr at 800, 1000, 1100, and 1200°C, respectively. With a 70-hr exposure, the weight gain decreased to 0.008 and 0.11 mg/cm² hr at 1100 and 1200°C, respectively. A thin, strong, dark-gray scale adhering to the base metal had the same components as the scale on the first alloy, even though they were formed at different oxidation temperatures. The higher oxidation rate of the first alloy as compared with the second alloy is explained by the fact that the first has an insufficient amount of Al to bind Mo into complex ($\text{Mo}, \text{Al}_2\text{O}_3$) oxide, thus allowing free Mo to vaporize after oxidizing to MoO_3 . Because of vaporization of Mo oxides and because of their small volume compared with that of the oxidized alloy, the scale formed from nonvolatile Al and Si oxides was not sufficiently dense to permit formation of complex oxides containing Mo, Al, and Si simultaneously. Orig. art. has: 2 figures, 1 table, and 4 formulas.

ASSOCIATION: none

Card 2/3

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6

L 13980-65

ACCESSION NR: AT4046835

SUMMITED: 16Jun64

ENCL: 00

SUB CODE: MM, GC

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3137

Card 3 / 3

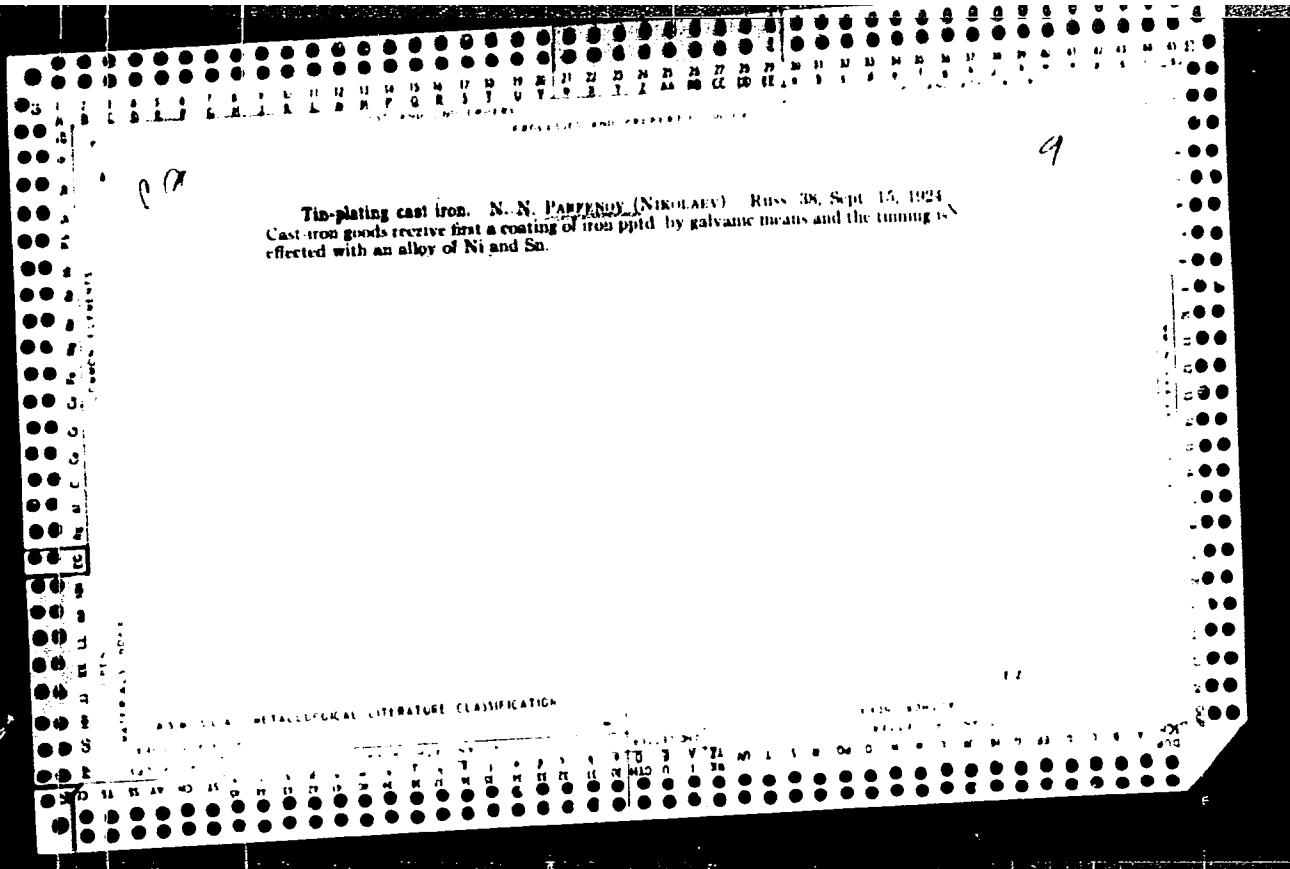
APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6"

PAPERNOV N.K.

Scientific community and standardization. Standartizatsii
29 no.9:4-5 S '65. (MIRA 18:12)

1. Byvshiy predsedatel' Komiteta sodeystviya standartizatsii
pri Vsesoyuznom sovete nauchnykh i inzhenerno-tehnicheskikh
obshchestv.



DOBKIN, I.Ye.; MESHCHANINOV, S.M.; PARFENOV, N.M.

Industrial properties of solidol obtained from mixtures of oxidized
liquid petroleum waxes and high-molecular synthetic fatty acids.
Proizv. smaz. mat. no.2:6-15 '56. (MIRA 10:11)

1. Leningradskiy neftemaslozavod imeni Shaumyana.
(Lubrication and lubricants)
(Acids, Fatty) (Paraffins)

PARFENOV, N.P., dotsent, kand. tekhn. nauk; GOMONOV, V.K., aspirant;
BROVCHENKO, R.A., student; KULIKOV, Yu.I., student; DOYKEK, V.M.,
student

Fixed fastening of a unit in a plane under directionally variable
loading. Sbor. trud. Khab. avt.-dor. inst. no.1:12-15 '62.
(MIRA 18:1)

RABINOVICH, A.N., doktor tekhn. nauk, prof.; NOVIKOV, M.P.,
kand. tekhn. nauk, retsenzent; PARFENOV, O.D., kand.
tekhn. nauk, red.

[Mechanization and automation of assembly work in the
machinery and instrument industries] Mekhanizatsiya i
avtomatizatsiya sborochnykh rabot v mashinostroenii i
priborostroenii. Izd.2., perer. i dop. Moskva, Mashino-
stroenie, 1964. 281 p. (MIRA 17:12)

PARFENOV O.D.

PHASE I BOOK EXPLOITATION SOV/4074

Avrutin, S. V., Engineer; Ye. D. Baklunov, Candidate of Technical Sciences; L. A. Gleyzer, Candidate of Technical Sciences; V. P. Yefimov, Candidate of Technical Sciences; S. P. Kartsev, Engineer; V. N. Kedrinskiy, Engineer, Laureate of the Lenin Prize; V. I. Korzinkin, Engineer; A. G. Kosilova, Candidate of Technical Sciences; A. N. Malov, Candidate of Technical Sciences; V. M. Matyushin, Doctor of Technical Sciences; G. V. Ostretsov, Candidate of Technical Sciences; K. P. Panchenko, Candidate of Technical Sciences; O. D. Parfenov, Candidate of Technical Sciences; L. A. Rozhdestvenskiy, Candidate of Technical Sciences; M. M. Saverin, V. F. Romanov, Candidate of Technical Sciences; G. N. Sakharov, Candidate of Technical Sciences; I. A. Sokolovskiy, Engineer; Yu. L. Frumin, Engineer; and V. A. Shishkov, Doctor of Technical Sciences.

Spravochnik metallista, tom 5 (Metalworker's Handbook, v. 5)
Moscow, Mashgiz, 1960. 1,184 p. 150,000 copies printed.

Card 1/11

Metalworker's Handbook, v. 5

SOV/4074

Editorial Council: N. S. Acherkan (Chairman and Chief Ed.), Doctor of Technical Sciences, Professor; V. S. Vladislavlev (Deceased), A. N. Malov, S. N. Pozdnyakov, A. Ya. Rostovskykh, G. B. Stolbin, and S. A. Chernavskiy; Ed.: A. N. Malov; Ed. of Publishing House: M. I. Gil'denberg; Tech. Ed.: T. F. Sokolova; Managing Ed. for Handbook Literature (Mashgiz): I. M. Monastyrskiy, Engineer.

PURPOSE: This handbook is intended for process engineers, designers, foremen, and other workers in the metalworking industry.

COVERAGE: The handbook deals with such metalworking processes as turning, machining of holes, cutting with reciprocating tools, milling, threading, gear cutting, burnishing, grinding, and finishing. Data are presented primarily in tabular form and are illustrated by drawings and diagrams. No personalities are mentioned. There are no references.

Card 2/11

Metalworker's Handbook, v. 5

SOV/4074

TABLE OF CONTENTS:

I. Turning (V. P. Yefimov and O. D. Parfenov)	1
General information	1
Single-point tools for turning	1
Machining on lathes	21
Specifications and testing of lathes for precision and rigidity	21
Single-point tools for lathes	36
Accessories and fixtures for turning	49
Attachments for lathes	57
Performing of typical operations on lathes	60
Machining on turret lathes	71
Types of turret lathes	71
Single-point tools for turret lathes	71
Accessories for turret lathes	96
Machining on semiautomatic lathes	113
Types and specifications of semiautomatic lathes	113
Single-point tools for semiautomatic lathes	129
Performing of typical operations on semiautomatic lathes	129
Machining on automatic lathes	139

Card 3/11

Metalworker's Handbook, v. 5

SOV/4074

Types and specifications of automatic lathes	139
Single-point tools for automatic lathes	160
Accessories for automatic lathes	167
Performing of typical operations on automatic lathes	196
Machining on vertical boring mills	214
II. Machining of Holes (K. P. Panchenko, L. A. Rozhdestvenskiy, and Ye. D. Baklunov)	
General information (K. P. Panchenko)	221
Basic types of machine tools for machining holes and their specifications	221
Drilling	227
Elements of drills	234
Types of drills; purpose and constructions	238
Basic types of twist drills	254
Drills for deep holes	273
Drills for plastics	293
Center reamers and countersinks	295
Taper twist drills	299

~~Card 4/11~~

HELEVTSIEV, A.T., kand. tekhn. nauk; GOLIKOV, V.I., kand. tekhn. nauk;
GOTSERIDZE, R.M., inzh.; YEFIMOV, V.P., kand.tekhn. nauk
[deceased]; KOPANEVICH, Ye.G., kand. tekhn. nauk; MALOV, A.N.,
prof.; PARFENOV, O.D., kand. tekhn. nauk; ROZENBERG, A.G.,
tekhn.; SEMIBRATOV, M.N., kand. tekhn. nauk; SKURATOV, A.Ye.,
kand. tekhn. nauk; SOKOLOVSKIY, I.A., kand. tekhn.nauk;
SYROVATCHENKO, P.V., kand. tekhn.nauk; TISHCHENKO, O.F., doktor
tekhn. nauk; USHAKOV, N.N., kand. tekhn. nauk; CHUMAKOV, V.P.,
kand. tekhn. nauk; SHAL'NOV, V.A., kand. tekhn.nauk; SHISHKIN,
V.A., kand. tekhn.nauk; YUZHNYY, I.I., inzh.; BLAGOSKLONOVA,
N.Yu., red. izd-va; SOKOLOVA, T.F., tekhn. red.

[Manual for engineers in the instrument industry] Spravochnik
tekhnologa-priborostroitelia. Pod red. A.N. Malova. Moskva,
Mashgiz, 1962. 988 p. (MIRA 16:2)
(Instrument manufacture)

AVRUTIN, S.V., inzh.; BAKLUNOV, Ye.D., kand.tekhn.nauk; GLEYZER, L.A., kand.tekhn.nauk; YEFIMOV, V.P., kand.tekhn.nauk; KARTSEV, S.P., inzh.; KIRIINSKIY, V.N., inzh., laureat Leninskoy premii; KORZINKIN, V.I., inzh.; KOSILOVA, A.G., kand.tekhn.nauk; MALOV, A.N., kand.tekhn.nauk; MATYUSHIN, V.M., doktor tekhn.nauk; OSTRETSOV, G.V., kand.tekhn.nauk; PANCHENKO, K.P., kand.tekhn.nauk; PARFENOV, O.D., kand.tekhn.nauk; ROZHDESTVENSKIY, L.A., kand.tekhn.nauk; ROMANOV, V.P., kand.tekhn.nauk; SAVERIN, M.M., doktor tekhn.nauk; SAKHAROV, G.N., kand.tekhn.nauk; SOKOLOVSKIY, I.A., inzh.; FRUMIN, Yu.L., inzh.; SHISHKOV, V.A., doktor tekhn.nauk; ACHERKAN, N.S., prof., doktor tekhn.nauk, glavnyy red.; VLADISLAVLEV, V.S., red. [deceased]; POZDNYAKOV, S.N., red.; ROSTOVYKH, A.Ya., red.; STOLBIN, G.B., red.; CHERNAVSKIY, S.A., red.; KARGANOV, V.G., inzh., red. graficheskikh rabot; GIL'DENBERG, M.I., red.izd-vs; SOKOLOVA, T.P., tekhn.red.

[Metallworking handbook; in five volumes] Sprevochnik metallista v piati tomakh. Chleny red.sovete: V.S.Vladislavlev i dr. Moskva, Gos.sachno-tekhn.izd-vo mashinostroit.lit-ry. Vol.5. 1960. 1184 p. (MIRA 13:5)

(Metalwork)

CHURABO, Dmitriy Dmitriyevich; PARFENOV, O.D., kand. tekhn. nauk, red.;
BORUNOV, N.I., tekhn. red.

[New nonmetallic materials for radio apparatus; handbook for
designers] Novye nemetallicheskie materialy dlja radioapparatury;
spravochnoe posobie dlja konstruktorov. Moskva, Gos. energ. izd-
vo, 1961. 335 p. (MIRA 14:9)

(Radio industry—Equipment and supplies)

-t2

PARFENOV, O.D., Cand Tech. Sci -- (disc' "Problems of mechanization and
automation of the process of ~~the setting~~ ^{the setting} of automatical thes.
Mos, 1957, 21 pp (Min of Higher Education USSR. Mos Order of Lenin and
Order of Labor Red Banner Higher Technical School im Baumana), 150 copies
(KL 43-58, 116)
Exhibition of Petrovskaya Expository, 160 copies (Kl 43-58)

P A R F E N O U , O . D .

25(5)	PHASZ I BOON EXPLOITATION	SOV/2294
	<i>Dom nauchno-tehnicheskoy propagandy izdati P.E.</i>	
	Dzerzhinskogo	
	Kompleksnaya avtomatizatsiya v mashinostroyenii i	
	boronk staryy (Overall Automation and Mechanization in	
	Mashine Manufacturing). Collection of Articles. Moscow.	
	Mashgiz, 1959. 312 p. 8,000 copies printed.	
	Additional Sponsoring Agency: Obshchestvo po rasprostraneniyu	
	politekhnicheskikh i nauchnykh zhurnalov.	
	Ed.: A.N. Malov, Candidate of Technical Sciences; Tech. Ed.:	
	B.I. Model, Manager; Ed. for Literature on Metalworking and	
	Toolmaking (Mashgiz); R.D. Bayzai, Msc., Engineer.	
	PURPOSE: This collection of articles is intended for engineering	
	and technical personnel of plants manufacturing machine and	
	instruments.	
	COVERAGE: This book acquaints industrial workers with devices	
	and equipment necessary for the overall mechanization and	
	automation of technological processes in machine manufac-	
	turing. Individual articles deal with general problems of	
	automation and mechanization of processes in preparatory,	
	machine, and assembly shops, and with problems arising from	
	the introduction of transfer lines. The book also includes	
	examples of devices and equipment tested and used under actual	
	plant conditions. The source of these data was the meeting	
	on overall mechanization and automation of technology,	
	process held in 1957 by the Moscow Branch of the Nauchnoe i	
	Sotsial'noye propaghodstvo i obrazovaniye (Scientific and	
	Technical Propagation and Education House). [P.S. Dzerzhinsky].	
	No personalities are mentioned. Several of the articles are	
	followed by references.	
	Trumilov, N.Y. Candidate of Technical Sciences/7. Programmed	105
	Control of Metalcutting Machine Tools	
	Bol'tukhin, A.K. Engineer/7. Mechanization and Automation of	123
	Machining Processes on Milling Machines	
	Khiltzuk, B.S. /Engineer/7. Mechanization and Automation of	146
	Grinding Machines	
	Zakharov, D.D. /Engineer/7. Self-resetting of Automatic Metal-	
	cutting Machine Tools	
	Rabot, N.Ja. /Engineer/7. Automation of Assembling Pro-	171
	cesses in Instrument Manufacture	
	Lydovskiy, D.G. /Engineer/7. Automatic Lines for Production	196
	of Bearings	
	Iosabtin, L.M. Candidate of Technical Sciences/7. Automatic	213
	Rotary Lines /Rotary Machines/	
	Bobrov, V.P. /Candidate of Technical Sciences/7. Transfer Systems	231
	of Automatic Lines	
	Malov, A.M. Candidate of Technical Sciences/7. Transfer Systems	246
	of Magazine Feeding Devices	
	Bobrov, V.P. /Candidate of Technical Sciences/7. Automation	268
	and Mechanization of Chip Removal on Metalcutting Machine Tools	
	Case 4/5	

PARFENOV, O.D.

"Automatic Measurement in Turning Up Metalworking Automatic Machines," in book
Complex Automation and Mechanization in Mechanical Engineering, State Scientific-
Technical Publishing Office for Machine Building Literature, Moscow, 1959.

PARFENOV, O. D. (Engr.) and FEFER, A. I. (Engr.)

"Mechanical Computation of Automatic Lathe Setups." in book Some Problems in the Modern Technology of Instrument Making, Moscow, Oborongiz, 1957, 126 p. Moscow. Aviatsionnyy tekhnol. institut.

The author discussed a newly developed device for checking the accuracy of setting-up automatic lathes. The principle of operation and examples of practical application of this device are presented. There are 4 Soviet References.

YAKHIN, A.B. [deceased]; PARFENOV, O.D.

Semiautomatic unit for readjustment of automatic machine tools.
[Trudy] MVTU no.90:5-8 '58. (MIRA 12:3)
(Machine tools--Maintenance and repair)

PARFENOV, O.D.

Semiautomatic group adjustment of metal-cutting machines. [Trudy]
MVTU no. 90:9-19 '58. (MIRA 12:3)
(Machine tools--Maintenance and repair)

PARFENOV, Oleg Dmitriyevich; SHARLOVSKIY, Yu.V., nauchnyy red.;
SIROTINA, S.L., red.; NESMYSLOVA, L.M., tekhn. red.

[Methods of increasing the accuracy of metalwork on
universal metal-cutting machines]Sposoby povysheniia toch-
nosti obrabotki na universal'nykh metallorezhushchikh stankakh.
Moskva, Proftekhnizdat, 1962. 102 p. (MIRA 16:3)
(Metal cutting) (Cutting machines)

PURFENOV, O. I.

9(7)

PHASE I BOOK EXPLOITATION

SOV/1569

Moscow. Vyssheye tekhnicheskoye uchilishche

Tekhnologiya priborostroyeniya; sbornik statey (Instrument-making Technology; Collection of Articles) Moscow, Oborongiz, 1958. 185 p. (Series: Its: /Trudy/ vyp. 90) 3,800 copies printed.

Ed.: A.N. Malov, Candidate of Technical Sciences; Chief Ed.: A.S. Zaymovskaya, Engineer; Ed. of Publishing House: E.A. Shekhtman; Tech. Ed.: N.A. Pukhlikova.

PURPOSE: This collection of articles is intended for workers in scientific and research institutes and instrument manufacturing plants and for teachers and students in vtuzes.

COVERAGE: The book deals with problems of automatic machine tool adjustments. It analyzes errors in setting up cutting tools and reviews basic technological calculations connected with the introduction of programming. Several articles are devoted to the analysis of pressure in machining parts and to the assembly operations in instrument manufacturing. A brief biography of Professor Abram Borisovich Yakhin (1901-1957) precedes the first article. No personalities are mentioned. There are no references.

Card 1/3

Instrument-making (Cont.)

SOV/1569

Yakhin, A.B., and O.D. Parfenov. Semiautomatic Device for the Adjustment of Automatic Machine Tools	5
Parfenov, O.D. Semiautomatic Adjustment of Metal-cutting Machine Tools According to the Grouping Method	9
Fadeyev, N.I. Providing Conditions Necessary for Operating Metal-cutting Machine Tools Using the Automatic Dimensioning Method	20
Fadeyev, N.I. Effect of Errors in The Setup of Tapered Cutters on the Precision of Machining	28
Bespalov, B.L. Effect of Deformations of a Blank During Clamping on the Precision of Machining	42
Bespalov, B.L. Effect of Allowance Variations on Machining Precision When Boring Housing Assemblies Using Unit Boring Machines	59
Chang Yen-shen. Adjustment of Unit Machine Tools for Machining Housing Assemblies for Instruments Using Optical and Mechanical Methods	72

Card 2/3

Instrument-making (Cont.)

SOV/1569

Yefimov, V.P. Grinding Small Module Gears With an Abrasive Worm 85

Chernyshev, A.V. Technical Calculations Related to the Introduction of Programming 110

Gotseridze, R.M., and V.P. Yefimov. Machining Teeth of Eccentric Gears on Gear Shapers by Means of Numerical Control 153

Syrovatchenko, P.V. Method of Determining the Magnitude of Interference Moments of Resisting Forces Acting on the Axes of a Gyro Cardan Joint 161

AVAILABLE: Library of Congress

JG/sfm
6-26-59

Card 3/3

~~FEB 1982~~
PEVER, A.I., inzhener; PARFENOV, O.D., inzhener.

Mechanizing computing operations in adjusting automatic lathes.
Trudy MATI no.33:101-108 '57. (MIRA 10:10)
(Lathes) (Automatic control)

PARFENOV, O.D.

PARFENOV, O.D.

Devices used in semiautomatic readjustment of machine tools.
Priborostroenie no.10:20-23 0 '57. (MIRA 10:11)
(Automatic control) (Machine-shop practice)

PARFENOV, P.

Questions and answers. Sots. trud 6 no.4:141-142 Ap '61.
(MIRA 16:7)
(Wages--Machinery industry)

PARFENOV, P.; SHOR, M.

Shift to the 7-hour workday and regulating wages in the
machinery industry. Sots.trud 4 no.7:59-65 Jl '60.

(MIRA 13:8)

(Machine industry)

(Hours of labor)

(Wages)

PARFENOV, P.; SHOR, M.

Work more actively to eliminate shortcomings in establishing
work norms in machinery manufacturing enterprises. Sots.trud
7 no.4:76-83 Ap '62. (MIRA 16:1)
(Machinery industry—Production standards)

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6

PARFENOV, P.F.

Orenburg Veterinary Research Station, Trudy VIEW 23:394-395 '59.
(MIREA 13:10)

(Orenburg—Veterinary research)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6"

ISAKOV, A.I.; PARFENOV, P.K.

Automatically controlled unit for precision manufacturing of
mortises. Der.prom. 9 no.2:5-7 F '60. (MIRA 13:6)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanicheskoy
obrabotki drevesiny.
(Automatic control) (Woodworking machinery)

SOV/115-59-7-3/33

9(2)

AUTHORS: Isakov, A.I., Parfenov, P.K.**TITLE:** An Electrical Contact Transducer Installed in a Dial Indicator**PERIODICAL:** Izmeritel'naya tekhnika, 1959, Nr 7, pp 4-6 (USSR)**ABSTRACT:** The authors suggest an electrical contact transducer installed in a dial indicator of the plant "Krasnyy instrumental'shchik". A diagram of the indicator mechanism is shown in fig.1. A 10 mm shift of the measuring rod results in one full turn of the gears z_1 and z_2 . Each tooth of the gears z_1 and z_2 corresponds to a certain position of the measuring rod, because of the rigid mechanical connection. In this way an electrical pulse may be obtained, caused by the closing of contacts at a previously fixed position of the measuring rod. For this purpose, the moveable parts of contact pairs must be fastened on the shafts of gears z_1 and z_2 , while the stationary parts must be mounted on the housing so that they can be adjusted. Fig. 2 shows the seating of the contact disc on the shaft of the gear z_2 . The contact disc is made of plastics and contains a brass contact ring. The contacts spring is made of beryllium bronze and terminates in a silver contact

Card 1/3

SOV/115-59-7-3/33

An Electrical Contact Transducer Installed in a Dial Indicator

point. Fig.3 shows the mounting of the contact system on the shaft of the gear z_1 . Fig.4 shows the rear cover of the pick-up and the mounting of the current feed contact. The rear cover of the indicator was replaced by a plexiglass plate on which the feed contact and the two limiting contacts were mounted. The feed contacts slide on the lateral surfaces of the two contact discs. The authors further describe a device designed for testing the experimental transducer models. The circuit diagram of the test device is shown in fig.5. A dodecahedral disc of 100 mm diameter was mounted on a RD-09 electric motor. The indicator transducer to be tested was installed in such a way that the rotation of the disc moved the measuring rod. The load on the electrical contacts consisted of two RSM-1 relays which were connected to signal lamps and one MKU-48 relay. The current measured upon closing of the contacts amounted to 18 milliamps and did not change during the tests. The contact resistance increase did not exceed 20% of the initial value and remained within the range of 0.25-0.030 ohms after 500,000 contact closures. The stability of the transducer setting was kept constant during the entire test period and

Card 2/3

SOV/115-59-7-3/33

An Electrical Contact Transducer Installed in a Dial Indicator

did not change more than ± 0.02 mm which remains within the certified indicator error of 0.025 mm. The application of self-cleaning slide contacts does not require periodic cleaning of contacts. There are 4 diagrams and 1 circuit diagram.

Card 3/3

PARFENOV, S.

Kak elektrifitsirovat' Moskovskii uzel. [How to electrify the Moscow railway junction. (Rekonstruktsiya transporta, 1932, no.23-24, p. 27-30, sketches).

DLC: HE7.R4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

Review:

PARFENOV, S.F.; RUKHOVETS, G.L., nachal'nik lineynogo otdela.

"Electrical measurements of interurban cablelines." V.N.Kuleshov,
V.Z.Malyshov, V.O.Shvartsman. Reviewed by S.F.Parfenkov, G.L.Rukhovets.
Vest.sviazi 14 no.4:31-32 Ap '54. (MLRA 7:6)

1. Glavnnyy inzhener Upravleniya kabel'moy magistrali (for Parfenkov).
(Kuleshov, V.N.) (Malyshov, V.Z.) (Shvartsman, V.O.)
(Telephone lines)

PARFENOV, S.G.

DAVIDIANTS, N.M., inzhener; LYAMIN, A.A., inzhener, laureat Stalinskoy premii; PARFENOV, S.G., inzhener.

Construction of sewage conduits using large reinforced concrete blocks. Stroi.prom. 32 no.4:35-38 Ap '54. (MLRA 7:5)
(Sewers, Concrete)

PARFENOV, S.I.

Epigenetic changes in rocks of the Lower Permian gypsum-anhydrite
subformation in the northern slope of the Tokmovsk arch in the
Russian Platform. Biul. MOIP. Otd. geol. 40 no. 6:144-145 N-D '65
(MIRA 19:1)

1. Submitted May 14, 1965.

REZANOV, I.A.; NGO TKHYONG SHAN; SHEYNMANN, Yu.M.; RATS, M.V.; KRUG, O.Yu.;
ZYRYANOV, V.N.; RAKCHEYEV, A.D.; YAKOVLEVVA, Ye.B.; PETROVA, M.A.;
PETRCV, Yu.I.; KUZNETSOV, Ye.A.; YUDINA, V.V.; BARDINA, N.Yu.;
SIMANOVICH, I.M.; ATANSYAN, S.V.; SERGEYEVA, A.M.; PARFENOV, S.I.;
RUTKOVSKI, Yatsek [Rutkowski, Jacek]; MAKHLINA, M.Kh.; ZVEREV, V.P.;
TERNOVSKAYA, V.T.; SAMOYLOVA, R.B.; YERMAKOVA, K.A.; BYKOVA, N.K.;
MEYYEN, S.V.; BARSKOV, I.S.; IL'INA, L.B.; BABANOVA, L.I.;
DOLITSKAYA, I.V.; GORBACH, L.P.; BUTS'KO, S.S.; TRESKINSKIY, S.A.;
SVOZDETSKIY, N.A.; PRYALVKHINA, A.F.; GROSVAL'D, M.G.; MODEL', Yu.M.;
GORYAINOVA, I.N.; MEDVEDEVA, N.K.; MYALO, Ye.G.; DOBROVOL'SKIY, V.V.;
KHOROSHILOV, P.I.; CHIKISHEV, A.G.

Brief news. Biul. MOIP. Otd. geol. 40 no.3:122-154 My-Je '65.
(MIRA 18:8)

PARFENOV, S.I.

Some geochemical processes in the Medovaya cavern. Inform.stor.-
Mezhd.kom.po izuch.geol.geogr. kar. no.1:185-188 '60.

(MIRA 15:4)

1. Laboratoriya gidrogeologicheskikh problem AN SSSR.
(Lvov region--Caves)

PARFENOV, S.N.

Auxiliary communications control desk. Avtom., telem. i sviaz:
6 no.4:17-18 Ap '62.
(MIRA 15:4)

1. Vedushchiy konstruktor Konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Railroads--Communication systems)

PARFENOV, S. N.

Some problems concerning the design and operation of communica-
tion systems in railroad runs. Avtom., telem. i svias' 7 no.4:
18-21 Ap '63. (MIRA 16:4)

1. Vedushchiy konstruktor konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey
soobshcheniya.

(Railroads—Communication systems)

PARTENOV, S.N.; KAZINOV, A.L.

KASS-19e railroad station communication apparatus. Avtom.,
telem. i svias' 4 no.1:22-24 Ja '60. (MIRA 13:4)

1. Vedushchiye konstruktory Konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi.
(Railroads--Communication systems)

PARFENDOV, S.N., inzhener.

New distribution board for station communication. Avtom.,
telem. i sviaz' no. 4:13-17 Ap '57. (MLRA 10:5)
(Railroads--Communication systems)

PAPINOV, S.N., inzh.

New switchboard for communication within the station. Avtom., telem.
i sviaz' no. 4:13-17 Ap '57. (MIRA 11:4)
(Telephone switchboards)

TEMEROV, B.F.; PARFENOV, S.N.

Some errors occurring in the conversion of communication systems
in line equipment stations. Avtom., telem. i sviaz' 6 no.9:
36-37 S '62. (MIRA 15:9)

1. Nachal'nik otdela signalizatsii i svyazi Rostovskogo otdeleniya
Severo-Kavkazskoy dorogi (for Temerov). 2. Vedushchiy konstruktor
Konstruktorskogo byuro Glavnogo upravleniya signalizatsii i
svyazi Ministerstva putey soobshcheniya (for Parfenov).
(Caucasus, Northern--Railroads--Communication systems)

PARFENOV, S.N.

Commutator to be used by the station attendant and operator.
Avtom.telem.i sviaz' 4 no.8:17-19 Ag '60. (MIRA 13:8)

1. Vedushchiy konstruktor Konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey
soobshcheniya.

(Railroads—Communication systems)
(Electric switchgear)

KONONOV, A.I., starshiy elektromekhanik; PARFENOV, S.N.

Concerning the shortcoming in the design of switch signaling
commutators. Avtom., telem.i sviaz' 6 no.2:37-38 F '62.

(MIRA 15:3)

1. Buyskaya distantsiya signalizatsii i svyazi Severnoy dorogi
(for Kononov). 2, Vedushchiy konstruktor Konstruktorskogo byuro
Glavnogo upravleniya signalizatsii i svyazi Ministerstva putey
soobshcheniya (fo: Parfenov).

(Railroads--Signaling)

JAN 22 1986
PARFENOV, S.N., inzh.

Communication on the railroad run. Avtom., telem. i sviaz' no.10:9-13
O '57. (MIRA 10:11)
(Railroads--Communication systems)

PARFENOV, S. N.

PARFENOV, S.N., inzh.

Communication systems in harbors and transhipment wharves.
Rech. transp. 17 no.2:13-16 F '58. (MIRA 11:2)
(Harbors) (Railroads--Communication systems)

PARFENOV, S.N., inzh.

Switchboards for station-wide communications. Avtom.telem.
1 sviaz' 3 no.1:41-44 Ja '59. (MIRA 12:1)
(Railroads--Communication systems)

PARFENOV, S.N.

VKSE-61 cable entrance stand. Avtom., telem.i sviaz' 6 no.1:13-15
Ja '62. (MIRA 15:3)

1. Vedushchiy konstruktor Konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey soobshcheniya.
(Electric railroads--Signaling)

PARFENOV, S.N.

The KASS-6 apparatus. Avtom., telem. i sviaz' 8 no.6:7-10
Je '64. (MTRA 17:6)

1. Vedushchiy konstruktor konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey soobshche-
niya.

PARFENOV, S.N.

Future communication equipment of railroad stations. Avtovz.,
telem. i sviaz' 9 no.7:8-11 Jl '65. (MIRA 18:8)

1. Vedushchiy konstruktor Konstruktorskogo byuro Glavnogo
upravleniya signalizatsii i svyazi Ministerstva putey
soobshcheniya.

PARFENOV, T. T.

Viticulture - Saratov (Province)

Grape growing in Saratov Province. Vin. SSSR no. 4, 1952

9. Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

FARFENOV, V., kand.tekhn.nauk

We have increased the production of steel. Komn.Vozruzh.Sil 2
no.1:33-36 Ja '62. (MIRA 14:12)
(Steel industry)

PONOMAREV, A., general-polkovnik inzhenerno-tehnicheskoy sluzhby;
POKROVSKIY, G., prof., doktor tehnicheskoy sluzhby;
KUVAL'DIN, A., dots., kand. tekhnicheskikh nauk inzhener-polkovnik; MOSTOVENKO, V., dots., kand. tekhnicheskikh nauk inzhener-polkovnik; GONCHAROV, M., polkovnik; TARANTSOV, A., polkovnik; VASIL'YEV, N., polkovnik; GORDEYEV, N., kapitan 1 ranga; KOZIN, K., kapitan 1 ranga; ARKHIPOV, M., dots., kand. tekhn. nauk inzhener-podpolkovnik; SEDOV, A., dots., kand. tekhn. nauk, inzhener-podpolkovnik; MELIK-PASHAYEV, N., dots., kand. tekhn. nauk, inzhener-podpolkovnik; TIKHOMIROV, Yu., dots., kand. tekhn. nauk, inzhener-podpolkovnik; PARENOV, V., kand. tekhn. nauk, inzhener-podpolkovnik; GEORGIYEV, A., inzh.-podpolkovnik; KRUCHININ, V., inzh.-podpolkovnik; MEKONOSHIN, N., inzh.-podpolkovnik; RYKOV, S., inzh.-podpolkovnik; SURIKOV, B., inzh.-podpolkovnik; ZHUKOV, V., inzh.-mayor; NOVIKOV, M., inzh.-mayor; SUSHKOV, Yu., inzh.-kapitan; ASTASHENKOV, P.T., inzh.-podpolkovnik; VASIL'YEV, A.A., red.; KARYAKINA, M.S., tekhn. red.

[New advances in military technology for youthful readers] Mo-

lodezhi o novom v voennoi tekhnike. Moskva, Izd-vo DOSAAF,

(MIRA 15:2)

(Rockets (Ordnance)) (Atomic weapons)

(Electronics in military engineering)

BATMANOV, G. (Tambov); PAREZNOV, V. (Kishinev); BELYAVSKIY, G. (Gor'kova
skaya obl.); BURTSEV, A. (Belovo, Kemerovskoy obl.)

Repaired by amateurs. Radio no. 3832-33 Mr 64 (MIRA 1787)

PARFENOV, V., kand.tekhn.nauk

Materials for the future. Starsh.-serzh. no.10:21 0 '61.
(MIRA 15:2)
(Metals)

PAPFENOV, V. (g. Ufa)

Training persistence and endurance. Voen.znan. 32 no.2:11 F '56.
(MLRA 9:5)

1. Predsedatel' komiteta pervichnoy organizatsii Dobrovol'nogo
obshchestva sodeystviya armii, aviatsii i flotu.
(Military education)

AUTHOR: Parfenov, V., Chief Engineer of the Expedition SOV-107-58-9-10/38

TITLE: Researchers into the Sixth Continent (Issledovateli she-stogo kontinenta)

PERIODICAL: Radio, 1958, Nr 9, pp 11 - 12 (USSR)

ABSTRACT: The abstract deals with the part played by radio operators in the Soviet Antarctic Expedition. The names of the operators at the various stations are listed and their official and amateur radio activities are described. Engineer As-kol'd Mikhaylovich Agafonnikov and his brother Yuriy are developing a portable ionosphere station with which they intend to carry out ionospheric studies on the return trip to the USSR. Engineer Pavel Vladimirovich Ionosilevich is preparing to make tests for long-range television reception.

1. Radio operators--USSR 2. Radio--Antarctic regions

Card 1/1

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CIA-RDP86-00513R001239220006-6

PARIENOV, V., inzh.; LUSHKINA, N., inzh.

"Dnepr-11" stereophonic tape recorder. Radio no. 6144-15 Je '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6"

PARTENOV, V., inzh.; LUSHINA, N., inzh.

The "Dnepr-ll" stereophonic system. Radio no. 7:37-39 Jl '65.
(MIRA 18:9)

LIFOROV, V. G.; PARFENOV, V.A.; SEMENOV, V. A.

"Double slow neutron spectrometer"

Paper to be presented at the International Atomic Energy Agency (IAEA) - Symposium on Inelastic Scattering of Neutrons in Solids and Liquids .. Chalk River, Canada, 10-14 Sept. 1962

PARKEROW, V.A.

PARKEROW, V.A. -- "Investigation of the Processes in the Treatment of Chalky Marl to Produce Local Binders and Parts for Autoclave Hardening." Acad Sci Lithuanian SSR, Inst of Chemistry and Chemical Technology, Vil'nyus, 1955
(Dissertation for the Degree of Candidate in Chemical Sciences.)

SO: Krizhnaya Letopis', No 9, 1956

PARFENOV, V.A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 448 - I

BOOK

Call No.: AF640320

Author: PARFENOV, V. A., Kand. of Tech. Sci.

Full Title: WINGED METAL

Transliterated Title: Krylatyy metall

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of Technical and
Theoretical Literature

Date: 1952 No. pp.: 40 No. of copies: 100,000

Editorial Staff

Editor: Belyayev, A. I., Prof.

Text Data

Coverage: The title "Winged Metal" means aluminum in the sense that this metal is used in aircraft construction. This monograph of the series "Scientific-Popular Library" discusses the production and use of aluminum in an extremely popular and colloquial form. It is a booklet of general and educational propaganda. A brief history of aluminum is given and the production is described with illustrations of equipment. It deals with the structure and properties of aluminum and its alloys, corrosion, coating, electroplating and the use of aluminum in various industries, particularly in aviation. The author

1/2

Krylatyy metall

AID 448 - I

asserts that all achievements in this field are due to Russian, especially to Soviet, scientists. Their names are scattered through the monograph.

TABLE OF CONTENTS

	PAGE
Introduction	3
1. "Silver out of Clay"	3
2. The Plant where Aluminum is Produced	4
3. "One Alone in the Field is not a Warrior" (Aluminum Alloys)	12
4. Microscopic Investigation	15
5. Properties of Aluminum Alloys	18
6. The Metal in a Coating	23
7. When the Coating is Harmful	27
8. Non-Flying Aluminum	33
Conclusion	36
Purpose: A booklet explaining in a popular form the production and use of aluminum	40

Facilities: None

No. of Russian and Slavic References: None

Available: A.I.D., Library of Congress

2/2

PARFENOV, V. A.

PA 233T36

USSR/Metallurgy - Welding, Nichrome

Jul 52

"Welding Nichrome of KhN70T Type," V.A. Parfenov, Cand
Tech Sci, V. A. Gorokhov, Engr

"Avtogen Delo" No 7, pp 7-10

Studies quality of welds obtained by oxyacetylene and
elec-arc methods. Discusses results of various tests,
such as metallographic examn of welded zones, chem
analysis of welded metal, hardness test of welds, ten-
sile test, long-term heat resistance, and thermal en-
durance. Welding rods of 3 grades were used with
coating made of chalk, TiO₂, ferromanganese, W, and
Ti.

233T36

PARFENOV, V. A., and Gorkhov, V. A. (Avto. Delo, 1952, 23, July, p. 7)

"The Welding of Titanium-Bearing 80-20 Nichrome" (Avto. Delo, 1952, 23, July, p.?)

Type KhN78T (19-20 per cent. Cr, 1 per cent. Fe, $\frac{1}{4}$ per cent. Ti) nichrome is usually welded by argonarc or resistance welding. It is shown that excellent arc welds are produced using parent metal wire with a standard nichrome-type coating, provided care is taken to minimize chromium and titanium losses by depositing small runs at high welding speeds.

PAPENOV, V.A., kandidat tekhnicheskikh nauk; BILYAYEV, A.I., professor,
redaktor; KATENKO, D.I., redaktor; NEGRIMOVSKAYA, R.A., tekhnicheskiy redaktor.

[Rare metals] Redkie metally. Pod red. A.I.Beliaeva. Moskva, Gos.
izd-vo tekhniko-teoret. lit-ry, 1954. 47 p. (Nauchno-populiarnaja
biblioteka, no.74) [Microfilm]
(Metals, Rare and minor) (MLRA 7:12)

Parfenov, V. A. USSR/Metallurgy			
Code 1/1			
Author	: Parfenov, V. A., Cand. in Tech. Sciences		
Title	: Improving the properties of alloys by the addition of rare metals		
Periodical	: Nauka i Zhizn' 21/3, 17-19, Mar/1954		
Abstract	: Of the 100 different elements 88 are found in nature and the rest are made artificially. More than 70 elements are metals. Among the rare ones are the hardest, the softest, those with the highest, and those with the lowest melting points. The properties of different metals are stated. Certain rare metals are primarily used for the effect which they have on certain alloys. Copper can be made seven times as durable by 1 per cent of beryllium. Lithium, boron, tungsten, molybdenum and other rare metals are used to improve the properties of alloys of common metals.		
Institution	:		
Submitted	:		

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001239220006-6

				<p>2577, v. 5, p. 115. Re lationships between Henry A. Wallace and Henry A. Brzezinski. Previously Mar. 1958.</p> <p>2577, v. 5, p. 115. Re lationships between Henry A. Wallace and Henry A. Brzezinski. Previously Mar. 1958.</p> <p>2577, v. 5, p. 115. Re lationships between Henry A. Wallace and Henry A. Brzezinski. Previously Mar. 1958.</p>	
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CIA-RDP86-00513R001239220006-6"

PARFENOV, V.A.

Causes of intergranular
attack in Al-Cu alloy
made from sheet Al-437
Obrabotka Metal. 1955, No.

11, 30-31. Specimens 10 mm. in
diam. and 20 mm. high were
heat-treated to max. hardness

by heating for 8 hrs. at 100°

for 10 hrs. at 700°. The

along their axes by about 0.30 mm. removed from

after being compressed

aged for 1 to 40 hrs. at

hardness after 30% compres-

After 10 hrs. aging at various temps. the hardness was:

750°, 380°, 800°, 330°, 100°, 200°.

Microscopic examination

showed that recrystallization

deformation, such as grain

recrystallization, occurred more readily

in a thin surface layer where

content of Al and Cu was depleted by the diffusion of these

elements into a surface oxide layer.

Microhardness data

showed this effect also, since the hardness near the surface

was only 120 kg./sq. mm. while that 0.15 mm. from the sur-

face was 410 in the 750° specimen and 320 in the 800°

specimen after 10 hrs. aging.

the microhardness near the

surface was lower the greater

amount of compression.

The specimens that had some surface

metal removed before aging behaved in a similar manner but

the difference between the

surface and center was less.

Thus, the range of surface cracking was localized recrystalliza-

tion at grain boundaries and twin boundaries.

A remedy would

be to avoid a deformed layer of the surface.

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Fatigue of metals. Mauka i zhiss' 22 no.12:23-25 D '55.
(Metals--Fatigue)
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Category : USSR/Solid State Physics - Mechanical Properties of Crystals and Poly-crystalline Compounds E-9

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1347

Author : Parfenov, V.A.

Title : Features of the Process of Fatigue Damage to Alloys at Phase-Transformation Temperatures

Orig Pub : Issledovaniya po zharoprochnym splavam. M., AN SSSR, 1956, 69-75

Abstract : Based on an analysis of the literature data and on the author's own experiments, certain ideas are stated concerning the endurance of heat-resistant alloys at test temperatures up to $0.7 T_m$ (melting temperature). Cyclic stresses imposed on the specimen during the fatigue tests accelerate the structural transformations in the alloys and contribute to the separation of lamellar phases on the slip planes and particularly on the twinning planes. At test temperatures above $0.5 T_m$ alloys hardened to a solid solution without subsequent stabilization exhibit a higher endurance to fatigue than specimens stabilized after hardening. The higher the plasticity of the alloy at the test temperature, the lower the sensitivity to notches during the fatigue tests. The endurance of specimens with previously-deformed

Card : 1/2

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surface at test temperatures above $0.55 T_m$ is reduced by recrystallization phenomena in the strengthened surface layer, as shown for alloys of the EI-437 type. The presence of inclusions of solid phases (metallic compound) in the structure of the alloy affects adversely the fatigue strength at test temperatures exceeding $0.5 \dots 0.6 T_m$.

Card : 2/2